X .	IS: Write a Java / C / C++ / Python program to perform encryption & decryption using the method of Transposition technique OR CC: Create an Application to 'perform array addition' in SalesForce using Apex programming language
2.	AI: Implement Greedy search algorithm for selection sort & any two of the following application (Perform for some application): Minimum Spanning Tree Single—Source Shortest Path Problem Job Scheduling Problem Prim's Minimum Spanning Tree Algorithm Kruskal's Minimum Spanning Tree Algorithm Disjkstra's Algorithm
3.	AI: Implement Greedy search algorithm for selection sort & any two of the following application (Perform for some application): Minimum Spanning Tree Single—Source Shortest Path Problem Job Scheduling Problem Prim's Minimum Spanning Tree Algorithm Kruskal's Minimum Spanning Tree Algorithm Disjkstra's Algorithm
4.	AI: Implement depth first search algorithm & breadth first search algorithm, use an undirected graph & develop a recursive algorithm for searching all the vertices of a graph or tree data structure. Print the levels as you traverse.
5.	AI: Implement depth first search algorithm & breadth first search algorithm, use an undirected graph & develop a recursive algorithm for searching all the vertices of a graph or tree data structure. Print the levels as you traverse.
6.	AI: Implement A Star Algorithm for any game search problem
7.	AI: Implement A Star Algorithm for any game search problem

8.	IS: Implement Dieffi Hellman Key Exchange mechanism OR CC: Create custom application of student database. If age of student is above 18, then student is eligible to vote for election. Fields: First Name, Last Name, DoB, Gender, City, State, Country, Mobile no., Address, PAN no., Adhar No., e — mail id. The underlined fields indicates that data entry in it is mandatory.
9.	IS: Write a Java / C / C++ / Python program to implement S-DES algorithm OR CC: Create a custom application for employee database. Display whether the employee is eligible for annual increment or not. Criteria for eligibility is: 1 paper publication & consultancy. Fields: Full Name, e-mail id, employee id, paper publication, consultancy.
1 0.	IS: Write a Java / C / C++ / Python program to implement S-DES algorithm OR CC: Write an Apex program 'to calculate area of geometry' in SalesForce.com using Apex programming language.
11.	AI: Implement any one of the following Expert System: Information management Hospitals & medical facilities Help desks management Employee performance evaluation Stock market trading Airline scheduling & cargo schedules
12.	AI: Implement any one of the following Expert System: Information management Hospitals & medical facilities Help desks management Employee performance evaluation Stock market trading Airline scheduling & cargo schedules
13.	AI: Implement A Star Algorithm for any game search problem

<i>¥</i> 4.	IS: Write a Java / C / C++ / Python program to implement S-AES algorithm OR CC: Write an Apex program 'to perform currency conversion' in SalesForce.com using Apex programming language
¥5.	CC: Write an Apex program to 'calculate compound interest & simple interest' in SalesForce.com using Apex programming language OR IS: Write a Java / C / C++ / Python program to implement RSA algorithm
16.	AI: Develop a smart chatbot for any suitable customer interaction application
17.	AI: Develop a smart chatbot for any suitable customer interaction application
18.	CC: Write an Apex program to 'perform temperature conversion' in SalesForce.com using Apex programming language OR IS: Implement Dieffi Hellman Key Exchange mechanism
19.	CC: Write an Apex program 'to determine whether given number is prime or not' in SalesForce.com using Apex programming language OR IS: Write a Java / C / C++ / Python program to implement RSA algorithm
20.	AI: Implement a solution for a Constraint Satisfaction Problem using Branch & Bound and Backtracking for graph coloring problem
21.	AI: Implement a solution for a Constraint Satisfaction Problemusing Branch & Bound and Backtracking for graph coloring problem

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22.	CC: Write an Apex program 'of Fibonacci series' in SalesForce.com using Apex programming language OR IS: Implement Dieffi Hellman Key Exchange mechanism
23.	CC: Write an Apex program 'to calculate matrix addition' in SalesForce.com using Apex programming language OR IS: Write a Java / C / C++ / Python program to implement S-AES algorithm
24.	CC: Create a custom application for employee database. Display whether the employee is eligible for annual increment or not. Criteria for eligibility is: 1 paper publication & consultancy. Fields: Full Name, e-mail id, employee id, paper publication, consultancy. OR IS: Write a Java / C / C++ / Python program to implement S-DES algorithm
25.	CC: Write an Apex program 'to develop scientific calculator' in SalesForce.com using Apex programming language OR IS: Write a Java / C / C++ / Python program to perform encryption & decryption using the method of Transposition technique
26.	CC: Write an Apex program 'to calculate matrix multiplication' in SalesForce.com using Apex programming language OR IS: Write a Java / C / C++ / Python program to perform encryption & decryption using the method of Transposition technique
27.	AI: Implement a system that performs arrangement of some set of objects in a room. Assume that you have only 5 rectangular, 4 square-shaped objects. Use A* approach for placement of the objects in room for efficient space utilisation. Assume suitable heuristic, & dimensions of objects & rooms.
28.	AI: Develop an expert system for library that would recommend book for its project work. Assume suitable data.

